

New claims:-

1. Goniochromatic luster pigments comprising at least one
5 dielectric low-refractive interference-colored layer which includes a polar organic solvent which can interact with the layer material via hydroxyl or amide groups.
2. Goniochromatic luster pigments as claimed in claim 1 and
10 comprising at least one dielectric low-refractive interference-colored layer which have been subjected to a thermal treatment in the polar organic solvent.
3. Luster pigments as claimed in claim 1 or 2, wherein the
15 organic solvent is ethylene glycol.
4. Luster pigments as claimed in any of claims 1 to 3, which have additionally been treated with a silane.
- 20 5. Luster pigments as claimed in claim 4, which have been treated with a silane of the general formula I



25 where:

R represents C₁-C₁₈-alkyl radicals which may be singly or multiply unsaturated and/or substituted by
30 C₁-C₆-alkanoloxy, halogen, amino and/or saturated or unsaturated C₁-C₆-alkoxy which may contain an epoxy group, and each R is the same or different for a > 1;

X is C₁-C₄-alkoxy and each X may be the same or different
35 for b > 1;

a is 1, 2 or 3;

b is 1, 2 or 3, with the proviso that the sum a + b = 4.

- 40 6. Luster pigments as claimed in claim 4 or 5, which have additionally been treated with a silane of the general formula Ia



45

where:

R' is vinyl or propyl which may be substituted in the terminal position by saturated or unsaturated C₂-C₄-alkoxy which may contain an epoxy group; and

5. X" is methoxy or ethoxy.

7. A process for preparing luster pigments as claimed in any of claims 1 to 3, which comprises heating the pigment particles in the organic solvent to a temperature $\geq 100^{\circ}\text{C}$.

10

8. A process for preparing luster pigments as claimed in any of claims 4 to 6, which comprises adding the silane before, during and/or after the heating.

15 9. The use of luster pigments as claimed in any of claims 1 to 6 for coloring coatings, inks, including printing inks, plastics, glasses, ceramic products and decorative cosmetic preparations.

20 10. The use of luster pigments as claimed in any of claims 1 to 6 for coloring baking finishes and powder coatings.

25

30

35

40

45